



M/03510009

Leslie Heppler <lheppler@utah.gov>

Incoming

## Construction Permit for Construction of Barneys Canyon Mine Heap Leach Pads #1 thru #4 Buttress, Groundwater Discharge Permit No. UGW350001

1 message

**Ally Gagon** <agagon@utah.gov>  
To: Leslie Heppler <lheppler@utah.gov>

Mon, Jan 25, 2016 at 3:34 PM

Leslie,

You are cc on this letter, I am providing you your copy. If you have any questions please feel free to contact me.

Thank you

**Ally Gagon | Office Tech II**

801.536.4329 (office) | 801.536.4301 (fax)

Office Hours: Monday-Thursday, 6:30 a.m.–5:00 p.m.



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**Construction Permit for Construction of Barneys Canyon Mine Heap Leach Pads.pdf**  
172K

RECEIVED E-Mail

JAN 25 2015

Div. of Oil, Gas & Mining





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Department of  
Environmental Quality

Alan Matheson  
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DIVISION OF WATER QUALITY  
Walter L. Baker, P.E.  
Director

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JAN 25 2016

Steve Schnoor  
Manager – Environment, Land and Energy  
Kennecott Utah Copper  
4700 Daybreak Parkway  
South Jordan, UT 84095

Dear Mr. Schnoor:

Subject: **Construction Permit** for Construction of Barney's Canyon Mine Heap Leach Pads #1 thru #4  
Buttress, Groundwater Discharge Permit No. UGW350001

On August 28, 2015 the Division of Water Quality (DWQ) issued a Construction Permit for the Barney's Canyon Mine Heap Leach Pad #5 Buttress. At that time it was understood that after additional engineering was completed that a Construction Permit for similar activities for Leach Pads #1 thru #4 would be required. On September 22, 2015, DWQ received the engineering plans and specifications for Leach Pads #1 thru #4. The drawings were prepared by Andersen Engineering Company Inc. and Stamped by Steven D. Andersen a Utah registered Professional Engineer (PE). The specifications were stamped by Ryan D. Eddy, PE.

The following is a summary of the proposed major construction projects:

- Place clean structural fill as a wedge or buttress adjacent to the present Heap Leach Pads and
- Extend the present 60 mil HDPE liner by cutting and then welding a new 60 mil HDPE liner and placing the new liner in an anchor trench.

Both the drawings and specifications refer to both 60 mil and 40 mil HDPE liners. It is the understanding of DWQ that the old liner is 60 mil HDPE therefore the new liner will also be required to be 60 mil HDPE.

The plans and specifications, as submitted, comply with *the Utah Water Quality Rules, (R317, Utah Administrative Code)*. A **Construction Permit** is hereby issued as constituted by this letter, subject to the following conditions:

1. *Any revisions or modifications to the approved plans and specifications must be submitted to DWQ for review and approval, before construction or implementation thereof. Please submit any changes for review and approval directly to Woodrow Campbell, P.E., of the DWQ Ground Water Protection Section.*
2. *A written operations and maintenance manual, containing a description of the functioning of the facilities, an outline of routine maintenance procedures, and all checklists and maintenance logs needed for proper operation of the system, must be submitted and approved before the final inspection and operation of the system.*



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3. *The approved facilities must not be placed in service unless DWQ has conducted a final inspection, reviewed and approved the As-Built Construction Certification Report, [issued a ground water discharge permit for the facility, if applicable] and provided written authorization to place the constructed facilities in service.*
4. *Construction activities that disturb one acre or more are required to obtain coverage under the Utah Pollutant Discharge Elimination System (UPDES) Storm Water General Permit for Construction Activities. The permit requires the development of a storm water pollution prevention plan (SWPPP) to be implemented and updated from the commencement of any soil disturbing activities at the site until final stabilization of the project. For more information, or to obtain permit coverage on-line, please go to: <http://www.waterquality.utah.gov/UPDES/stormwater.Htm>*

The plans and specifications for this project have stamped and signed by a Professional Engineer currently licensed to practice in the state of Utah. The construction design, inspection supervision, and written construction certification of all work associated with this Construction Permit must be performed by a Professional Engineer licensed to practice in the state of Utah.

This Construction Permit will expire one year from the date of its issuance, as evidenced by the date of this letter, unless substantial progress is made in constructing the approved facilities or the plans and specifications have been resubmitted and the construction permit is reissued. This permit does not relieve you, in any way, of your obligations to comply with other applicable local requirements.

Please contact Mr. Campbell at the beginning of construction to allow periodic inspections to be scheduled. Upon completion of the project, a final inspection and approval of the As-Built Construction Certification Report is required before the approval to operate the completed facilities can be issued. Please remain in contact with Mr. Campbell to schedule the final inspection. The Construction Certification Report with final as-built drawings must include test results for the following construction quality assurance and quality control (CQA/QC) elements [only include elements applicable to the project]:

Soil Placement

- Proctor Curves,
- Soil Classification,
- Field Compaction Testing, and
- Subgrade Acceptance Certification.

Flexible Membrane Liner

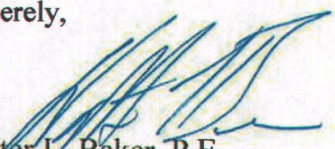
- Panel Placement Log,
- Trial Seam Test Log,
- Seaming Record,
- Seam Test Record,
- Repair Log,
- As-Built Drawing,
- Manufactures Certification including QA/QC Testing of the Rolls, and
- Professional Engineer Certification.



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If we can be of further assistance, please contact Mr. Woodrow Campbell at [wwcampbell@utah.gov](mailto:wwcampbell@utah.gov) or (801) 536-4353.

Sincerely,



Walter L. Baker, P.E.  
Director

WLB/WWC/RFH:ag

cc: Doug Bacon, DERR (via email, w/o encl.)  
Leslie Heppler, UDOGM (via email, w/o encl.)  
Kerri Fiedler, Region 8 USEPA (via email, w/o encl.)

DWQ-2016-000962

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